

1 SUB B17

1. A data storage comprising:

2 at least one storage device partitioned into a
3 plurality of volumes for storing data;

4 a first database including first configuration data
5 for identifying which of a plurality of hosts coupled to the
6 data storage have authorized access to each of the plurality
7 of volumes of the at least one storage device;

8 a backup system having at least one backup storage
9 device for storing at least a portion of data stored on the
10 storage device; and

11 a second database including second configuration
12 data for identifying which of the plurality of hosts coupled
13 to the data storage have access to the at least one backup
14 storage device.

1 2. The data storage of claim 1 wherein the at
2 least one storage device, the first database, and the second
3 database are part of an enterprise data storage system.

1 3. The data storage of claim 2 further comprising
2 a first adapter, responsive to the first configuration data,
3 which selectively forwards to the at least one storage
4 device, requests from the plurality of hosts, for access to
5 the plurality of volumes.

1 4. The data storage of claim 3 further comprising
2 a second adapter, responsive to the second configuration
3 data, which selectively forwards to the backup system,
4 requests from the plurality of hosts, for access to the at
5 least one backup storage device.

1 5. The data storage of claim 3 wherein the first
2 configuration data is stored in a configuration table
3 including a plurality of records, each of the records having
4 an identifier and information indicating which of the
5 volumes are available to a host associated with the
6 corresponding identifier, and wherein the request includes a
7 source identifier identifying the host that initiated the
8 request and an address to one of the plurality of volumes in
9 the storage system.

1 6. The data storage of claim 1 wherein the hosts
2 are coupled to the data storage by a Fibre Channel network,
3 a request for access by one of the plurality of hosts being
4 in a Fibre Channel protocol.

1 7. The data storage of claim 1 wherein the at
2 least one backup storage device operates under a SCSI
3 protocol.

1 8. The data storage of claim 7 wherein the at
2 least one backup storage device is a tape storage drive.

1 SUB 27 9. A method for managing access between a
2 plurality of hosts and a backup system, the backup system
3 being part of a data storage including at least one data
4 storage device partitioned into a plurality of volumes and a
5 first database used by the hosts to determine which hosts
6 have authorized access to the volumes, the method
7 comprising:
8 receiving, by the data storage, a request from at
9 least one of the hosts for access to data stored on the
10 backup system; and
11 determining, in response to configuration data, that
12 the host requesting access is authorized to access the
13 portion of data stored on the backup system.

1 SUB 637 10. The method of claim 9 wherein the backup system
2 includes a plurality of backup storage devices and the
3 configuration data is stored in a configuration table
4 including a plurality of records, each of the records having
5 an identifier and information indicating which of the backup
6 storage devices are available to a host associated with the
7 corresponding identifier, and wherein the request includes a
8 source identifier identifying the host that initiated the
9 request and an address to one of the backup storage devices;
10 and
11 determining whether to service the request
12 responsive to a portion of the configuration data associated
13 with the source identifier and the address of the one of the
14 backup storage devices.

